

AMENDMENTS TO THE CLAIMS

Ref

The claims in this listing will replace all prior versions, and listings, of claims in the application.

Claims 1 and 2. (Canceled)

3. (Currently Amended) A spreading code generation apparatus comprising:

a spreading code generator;

a shift register that temporarily stores spreading codes generated from said spreading code generator and outputs said spreading codes with different delays in parallel from respective taps;

a searcher that acquires a synchronization of a CDMA signal received through multi-paths and outputs synchronization acquisition information including reference timing information necessary to specify a relative positional relationship between paths and delay time information on delays relative to the reference timing;

a plurality of correlators provided according to said paths that despread said CDMA signal at timings corresponding to the respective paths of said multi-paths; and

at least one selector provided between said shift register and said plurality of correlators that selects one of spreading codes with different delays output in parallel from the respective taps of said shift register based on said synchronization acquisition information output from said searcher and supplies the selected spreading code to one of said plurality of correlators. ~~The spreading code generation apparatus according to claim 2, said at least one selector comprising:~~

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decoders that decode said synchronization acquisition information and generate a plurality of data bits in parallel; and

a plurality of gate circuits, each gate circuit receiving as inputs one of a plurality of spreading codes with different delays output in parallel from the respective taps of said shift register and one bit of said plurality of data bits output from said decoder and controlling whether output of said spreading code entered should be enabled or disabled according to the value of said one bit.

Claims 4-6. (Canceled)

7. (Previously Presented) A CDMA receiver equipped with the spreading code generation apparatus according to claim 3.

Claims 8-10. (Canceled)

11. (New) A method of generating a spreading code comprising:

generating a spreading code;

temporarily storing spreading code generated in a shift register and outputting the spreading codes with different delays in parallel from respective taps of the shift register;

acquiring a synchronization of a CDMA signal received through multi-paths and outputting synchronization acquisition information including reference timing information necessary to specify a relative positional relationship between paths and delay time information on delays relative to the reference timing;

dispersing the CDMA signal at timings corresponding to the respective paths of the multi-paths;

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selecting one of spreading codes with different delays output in parallel from the respective taps based on the output synchronization acquisition information and supplying the selected spreading code to be despread, the selecting comprising decoding the synchronization acquisition information and generating a plurality of data bits in parallel, and, receiving one of a plurality of spreading codes with different delays output in parallel from the respective taps and one bit of the plurality of output data bits and controlling whether output of the input spreading code should be enabled or disabled in accordance with the value of the one bit.